09/435,365

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1204BXD

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 25	CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS	4	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	5	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	6	FEB 28	MEDLINE/LMEDLINE reloaded
NEWS	7	MAR 02	GBFULL: New full-text patent database on STN
NEWS	8	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	9	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	10	MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	11	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	12	MAR 22	PATDPASPC - New patent database available
NEWS	13	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	14	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	15	APR 04	EMBASE - Database reloaded and enhanced
NEWS	16	APR 18	New CAS Information Use Policies available online

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:48:27 ON 25 APR 2005

=> fil reg
COST IN U.S. DOLLARS SINCE FILE TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:48:38 ON 25 APR 2005
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STRUCTURE FILE UPDATES: 24 APR 2005 HIGHEST RN 849094-71-9
DICTIONARY FILE UPDATES: 24 APR 2005 HIGHEST RN 849094-71-9

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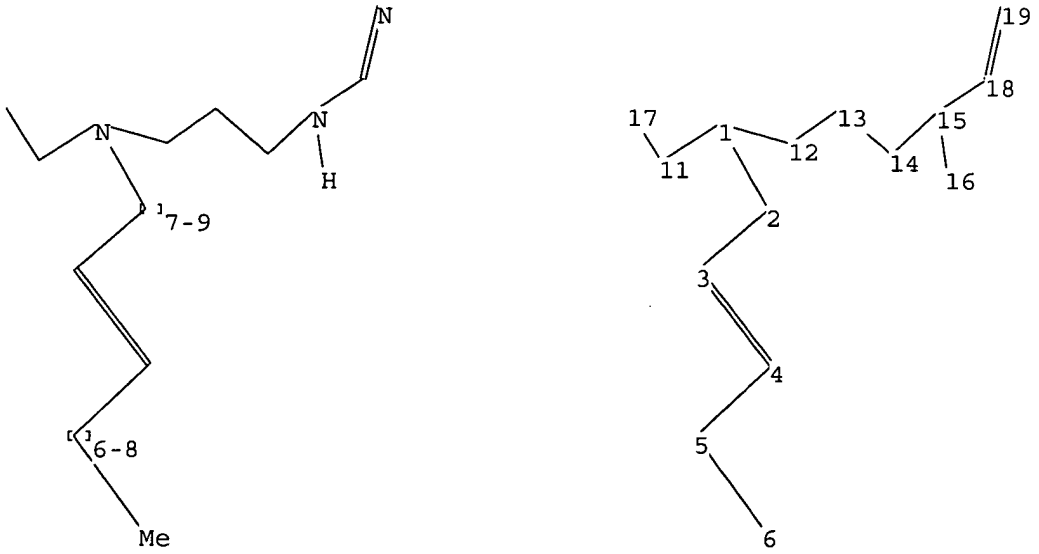
****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str



chain nodes :

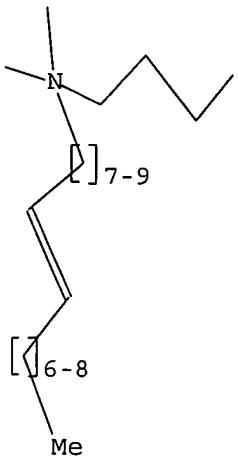
```
1  2  3  4  5  6  11  12  13  14  15  16  17  18  19
chain bonds :
1-2  1-11  1-12  2-3  3-4  4-5  5-6  11-17  12-13  13-14  14-15  15-16  15-18
18-19
exact/norm bonds :
1-2  1-11  1-12  14-15  15-18  18-19
exact bonds :
2-3  3-4  4-5  5-6  11-17  12-13  13-14  15-16


Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  11:CLASS  12:CLASS  13:CLASS
14:CLASS  15:CLASS  16:CLASS  17:CLASS  18:CLASS  19:CLASS



L1      STRUCTURE UPLOADED

=> d query
L1               STR
```




```
Structure attributes must be viewed using STN Express query preparation.


=> s l1
SAMPLE SEARCH INITIATED 14:48:57 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    292 TO ITERATE

100.0% PROCESSED     292 ITERATIONS                              10 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         4815 TO     6865
PROJECTED ANSWERS:              11 TO      389

L2           10 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 14:49:03 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   5965 TO ITERATE
```

100.0% PROCESSED 5965 ITERATIONS 158 ANSWERS
SEARCH TIME: 00.00.01

L3 158 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 161.33 161.54

FILE 'CAPLUS' ENTERED AT 14:49:11 ON 25 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

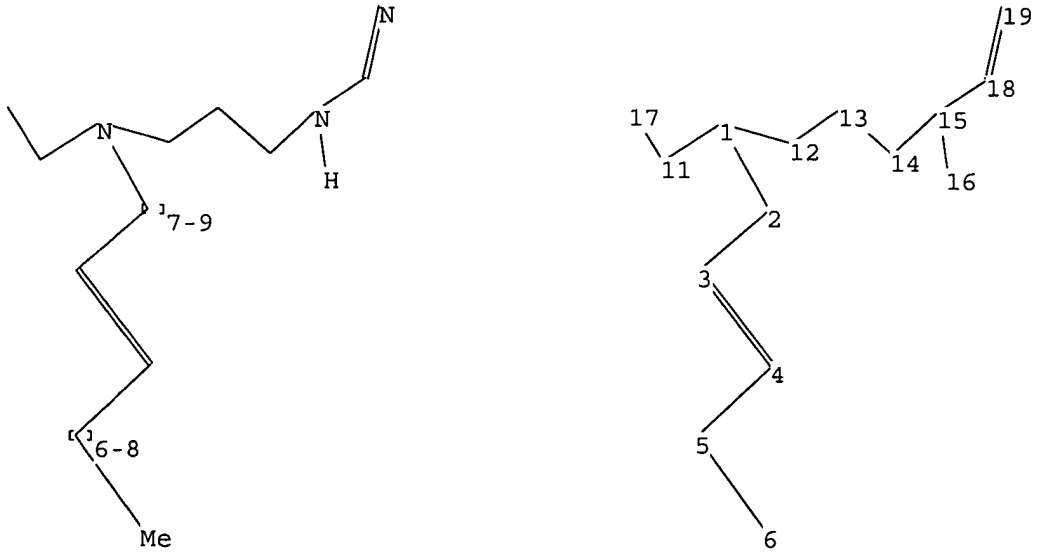
FILE COVERS 1907 - 25 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 24 Apr 2005 (20050424/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 281 L3

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str



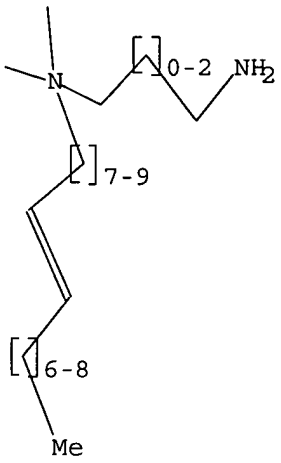
chain nodes :

1 2 3 4 5 6 11 12 13 14 15 16 17 18 19
chain bonds :
1-2 1-11 1-12 2-3 3-4 4-5 5-6 11-17 12-13 13-14 14-15 15-16 15-18
18-19
exact/norm bonds :
1-2 1-11 1-12 14-15 15-18 18-19
exact bonds :
2-3 3-4 4-5 5-6 11-17 12-13 13-14 15-16

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 11:CLASS 12:CLASS 13:CLASS
14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

L5 STRUCTURE UPLOADED

=> d query
L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l5
REGIstRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 14:50:20 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 99 TO ITERATE

100.0% PROCESSED 99 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

```
PROJECTED ITERATIONS:          1384 TO     2576
PROJECTED ANSWERS:                1 TO       80

L6             1 SEA SSS SAM L5



L7             0 L6

=> fil reg
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.45     163.32

FILE 'REGISTRY' ENTERED AT 14:50:32 ON 25 APR 2005
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STRUCTURE FILE UPDATES:   24 APR 2005  HIGHEST RN 849094-71-9
DICTIONARY FILE UPDATES:  24 APR 2005  HIGHEST RN 849094-71-9

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*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>

=> s l5 full
FULL SEARCH INITIATED 14:50:36 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1967 TO ITERATE

100.0% PROCESSED    1967 ITERATIONS                          6 ANSWERS
SEARCH TIME: 00.00.01

L8             6 SEA SSS FUL L5

=> fil caplus
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
```

	ENTRY	SESSION
FULL ESTIMATED COST	161.33	324.65

FILE 'CAPLUS' ENTERED AT 14:50:41 ON 25 APR 2005
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FILE COVERS 1907 - 25 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 24 Apr 2005 (20050424/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l8
L9            2 L8

=> d l9 1-2 abs ibib hitstr
```

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

AB The title compds. are useful as emulsifying agents and as fat-liquoring or softening agents for leather, paper, and textiles. Inter-mediates RNHCH2CH(OH)CONH2 (I) and RN[CH2CH(OH)-CONH2]2 (II) were prepared by reacting 1 or 2 moles glycidamide with 1 mole of amine RNH2 in 25 aqueous, aqueous methanolic, or methanolic solution at 50-60° during 1-2 hr. Quaternization of I and II was carried out by treating with an appropriate halide in H2O, aqueous methanolic or methanolic solution at 30-50° for 2-3 hr then at 50° for 2-3 hr. Aqueous solns. containing 0.3 g/l. [C18H39-NMe[CH2CH(OH)CONH2]2}+MeSO4- were used to treat cot-ton and polycaprolactam fabrics giving material with a soft pleasant hand and hydrophilic in character.

ACCESSION NUMBER: 1971:87345 CAPLUS
DOCUMENT NUMBER: 74:87345
TITLE: (β-Carbamyl-β-hydroxyethyl)alkylammonium salts
PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik AG
SOURCE: Brit., 12 pp.
CODEN: BRXXAA
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

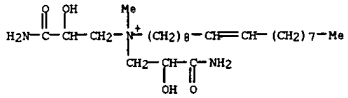
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1211040		19701104	GB	
FR 1592740			FR	
US 3632623		19720000	US	
PRIORITY APPLN. INFO.:			DE	19671121

IT **32671-74-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 32671-74-2 CAPLUS
CN Ammonium, bis(2-carbamoyl-2-hydroxyethyl)methyl-9-octadecenyl-, methyl sulfate, (Z)- (8CI) (CA INDEX NAME)

CM 1

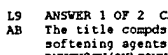
CRN 48077-37-8
CMF C25 H50 N3 O4



CM 2

CRN 21228-90-0
CMF C H3 O4 S

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L9 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

AB The title compds. [RR1R2NCH2CONH2]+X- (I), useful as antistatic agents for synthetic fibers, were prepared by reaction of a tertiary amine, RR1R2N (II) with XCH2CONH2 (III, X = halogen). Thus, a solution of 297 II (R = n-C18H37, R1 = R2 = Me) and 93.5 III (X = Cl) in 390 (weight parts) MeOH was refluxed 4 hrs., evaporated in vacuo at 50-60°, cooled, and filtered to give I (R = n-C18H37, R1 = R2 = Me, X = Cl), straw-colored solids. Other I prepared were (R, R1, R2, X): stearamidopropyl, CH2CH2OH, CH2CH2OH, Cl; n-C11H23CO2CH2CH2, CH2CH2OH, CH2CH2OH, Cl; oleyl, CH2CH2OAc, CH2CH2OAc, Cl; Me n-C11H23CONH-CH2CH2, C11H23CONHCH2CH2, Br; and Me, oleyl, oleyl, Br; lauryl, (NR1R2=) morpholino, Cl; oleyl, (CH2CH2O)aH, (CH2CH2O)bH, Br.

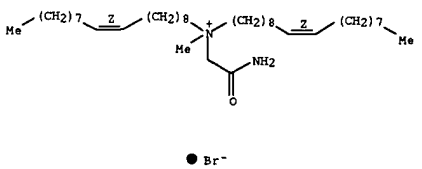
ACCESSION NUMBER: 1969:114596 CAPLUS
DOCUMENT NUMBER: 70:114596
TITLE: Quaternary ammonium salts
INVENTOR(S): Fujimoto, Takehiko; Saito, Toshio; Suwada, Ataru; Ohno, Satoyoshi
PATENT ASSIGNEE(S): Sanyo Chemical Industry Co., Ltd.
SOURCE: Jpn. Tokkyo Koho, 3 pp.
CODEN: JAXXAD
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 43013966	B4	19680613	JP	19640616

IT **23208-83-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 23208-83-5 CAPLUS
CN Ammonium, (carbamoylmethyl)methyldi-9-octadecenyl-, bromide, (Z,Z)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



● Br⁻

```
=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     11.23     335.88

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     -1.46      -1.46

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DICTIONARY FILE UPDATES:  24 APR 2005  HIGHEST RN 849094-71-9

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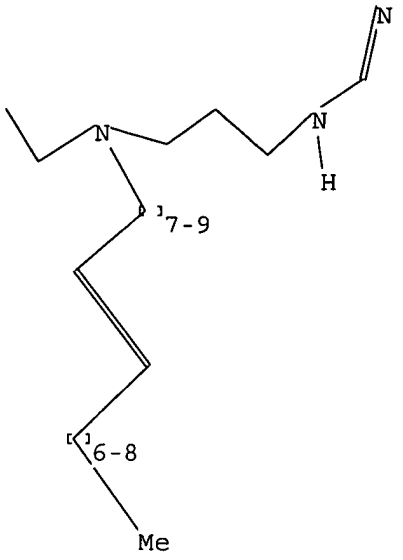
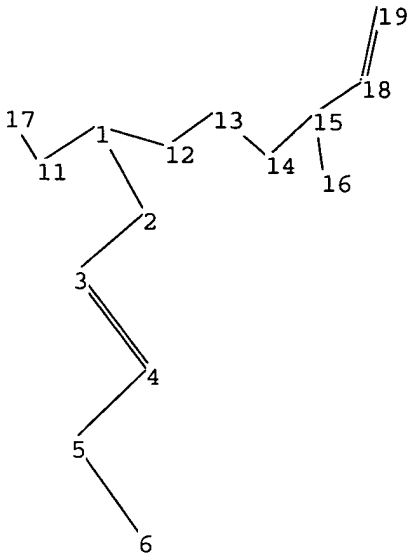
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str
```



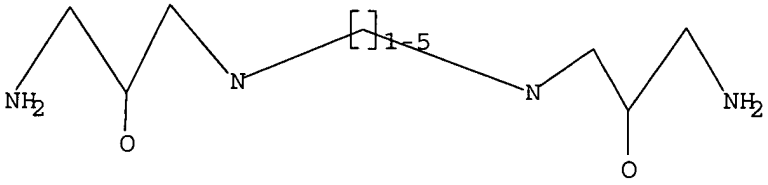


chain nodes :
1 2 3 4 5 6 11 12 13 14 15 16 17 18 19
chain bonds :
1-2 1-11 1-12 2-3 3-4 4-5 5-6 11-17 12-13 13-14 14-15 15-16 15-18 18-19
exact/norm bonds :
1-2 1-11 1-12 14-15 15-18 18-19
exact bonds :
2-3 3-4 4-5 5-6 11-17 12-13 13-14 15-16

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

L10 STRUCTURE UPLOADED

=> d query
L10 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l10
SAMPLE SEARCH INITIATED 14:54:31 FILE 'REGISTRY'

```
SAMPLE SCREEN SEARCH COMPLETED -   3239 TO ITERATE

 30.9% PROCESSED    1000 ITERATIONS                                  0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        61367 TO    68193
PROJECTED ANSWERS:               0 TO        0

L11           0 SEA SSS SAM L10

=> s l10 full
FULL SEARCH INITIATED 14:54:35 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  63729 TO ITERATE

100.0% PROCESSED   63729 ITERATIONS                              10 ANSWERS
SEARCH TIME: 00.00.02

L12          10 SEA SSS FUL L10

=> fil caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   162.62     498.50

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -1.46

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FILE COVERS 1907 - 25 Apr 2005  VOL 142 ISS 18
FILE LAST UPDATED: 24 Apr 2005  (20050424/ED)

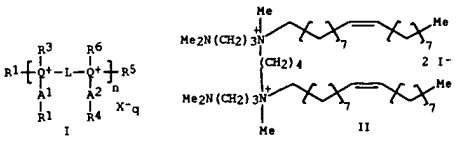
New CAS Information Use Policies, enter HELP USAGETERMS for details.

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> s l12
L13           7 L12
```

=> d 113 1-7 abs ibib hitstr

L13 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Synthesis and activity of transfection reagents (I) [Q = N, O, S; L = (un)substituted alkyl, ether, polyether, amide, polyamide, ester, sulfide, urea, thiourea, guanidyl, carbamoyl, carbonate, phosphate, sulfate, sulfoxide, imine, carbonyl, secondary amine; R1-R6 independently = (un)substituted alkyl, alkenyl, aryl, ether; A1, A2 independently = CH2O, CH2S, CH2NH, CO, C=NH, CS, alkyl; X = physiol. acceptable anion; n = 1-1000; q = number of pos. charge divided by valence of anion], cationic lipids capable of facilitating transport of biol. active agents or substances into cells, are disclosed. Thus, I [R1,R4 = oleyl; R2,R5 = Me2N(CH2)3; R3,R6 = Me; A1,A2 = CH2; L = (CH2)4; X = I] (II) is prepared by reaction of bis-1,4-oleyl-1,4-butandiamine with acrylonitrile followed by reduction of nitrile to amine and quaternization of amine with Me iodide. II shows an activity of 37.8 ng/βgal/cm2 in DNA delivery. Formulations containing I are given.

ACCESSION NUMBER: 2000:335366 CAPLUS
DOCUMENT NUMBER: 132:334312
TITLE: synthesis and activity of transfection reagents for transport of biol. active agents or substances into cells
INVENTOR(S): Chu, Yongliang; Masoud, Malek; Gebeyehu, Gulilat
PATENT ASSIGNEE(S): Life Technologies, Inc., USA
SOURCE: PCT Int. Appl., 130 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027795	A1	20000518	WO 1999-US26825	19991112
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2350882	AA	20000518	CA 1999-2350882	19991112
EP 1129064	A1	20010905	EP 1999-971794	19991112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002529439	T2	20020910	JP 2000-580975	19991112
NZ 512244	A	20031219	NZ 1999-512244	19991112
AU 772847	B2	20040506	AU 2000-14776	19991112
PRIORITY APPLN. INFO.:			US 1998-108117P P	19981112
			WO 1999-US26825 W	19991112

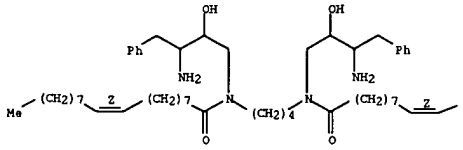
OTHER SOURCE(S): MARPAT 132:334312

IT **268554-14-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and activity of transfection reagents for transport of biol. active agents or substances into cells)

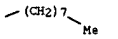
RN 268554-14-9 CAPLUS
CN 9-Octadecenamide, N,N'-1,4-butanediylbis[N-(3-amino-2-hydroxy-4-phenylbutyl)-, (9Z,9'Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

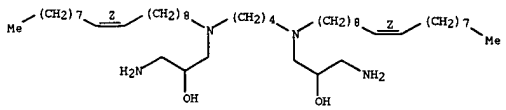


IT **268539-48-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis and activity of transfection reagents for transport of biol. active agents or substances into cells)

RN 268539-48-6 CAPLUS
CN 2-Propanol, 1,1'-[1,4-butanediylbis[(9Z)-9-octadecenylimino]]bis[3-amino- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L13 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



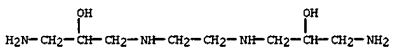
REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
AB Eleven substituted 1,4,8,11-tetraazacyclotetradecanenickel(II) complexes were prepared by the Ni ion assisted cyclization of 1,5,8,12-tetraazadodecanes with glyoxal and reduction of the unsatd. complex obtained in the cyclization reaction. NaBH4 or H and Raney nickel catalyst were used for the reduction With 2 exceptions, yields of the saturated complexes were 50-75%. Macrocyclic tetramines were obtained by decomposition of the Ni complexes with cyanide ion. 1,5,9.15-Tetraazacyclopentadecane was prepared in 45% yield from 1,5,9,13-tetraazatridecane by this method.

ACCESSION NUMBER: 1976:413135 CAPLUS
DOCUMENT NUMBER: 85:13135
TITLE: Synthesis of macrocyclic tetramines by metal ion assisted cyclization reactions
AUTHOR(S): Barefield, E. Kent; Wagner, F.; Hodges, Keith D.
CORPORATE SOURCE: Univ. Illinois, Urbana, IL, USA
SOURCE: Inorganic Chemistry (1976), 15(6), 1370-7
CODEN: INOCAJ; ISSN: 0020-1669
DOCUMENT TYPE: Journal
LANGUAGE: English

IT **58770-22-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reactions of)

RN 58770-22-2 CAPLUS
CN 2-Propanol, 1,1'-(1,2-ethanediyldiimino)bis[3-amino- (9CI) (CA INDEX NAME)



L13 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

AB Sixteen secondary and tertiary β-carbamoyl-β-hydroxyethylamines with Fe-chelating properties were prepared in 76-94% yield by the addition reaction of H2NNH2, HONH2, NH3, or aliphatic primary amines or N2-4 polyamines with 2-6 moles of glycidamide or its N-(hydroxymethyl) or N-(methoxymethyl) derivative Thus, 4 moles N-(hydroxymethyl)glycidamide added to 1 mole H2N(CH2)6NH2 in 1-2 hr at room temperature to give 86% [[HOCH2NHCOCH(OH)CH2]2N(CH2)3]2, 100 mg of which sequestered 84 mg Fe3+ at pH 5, compared to 15 mg Fe3+ by Na4EDTA.

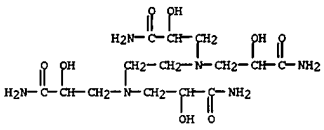
ACCESSION NUMBER: 1975:605787 CAPLUS
DOCUMENT NUMBER: 83:205787
TITLE: β-Carbamoyl-β-hydroxyethylamines
INVENTOR(S): Sander, Bruno; Fuchs, Friedrich; Becke, Friedrich; Kohlhaupt, Reinhold
PATENT ASSIGNEE(S): BASF A.-G., Fed. Rep. Ger.
SOURCE: Ger., 6 pp.
CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1543378	A	19720330	DE 1966-B89683	19661104
DE 1543378	B2	19750410		
DE 1543378	C3	19751120		
CH 482647	A	19691215	CH 1967-482647	19671026
CH 6715008	A4	19700130	CH 1967-1500867	19671026
CH 490473	A	19700515	CH 1967-490473	19671026
NL 6714920	A	19680506	NL 1967-14920	19671102
BE 706033	A	19680503	BE 1967-706033	19671103
AT 277280	B	19691229	AT 1967-9936	19671103
GB 1195427	A	19700617	GB 1967-1195427	19671103

PRIORITY APPLN. INFO.: DE 1966-B89683 A 19661104

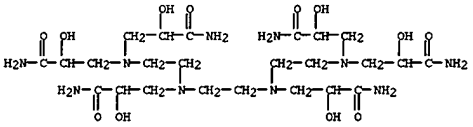
IT **23918-41-4P 25937-86-4P 25937-87-5P 25937-93-3P 25937-94-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 23918-41-4 CAPLUS
CN Propanamide, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[2-hydroxy- (9CI) (CA INDEX NAME)

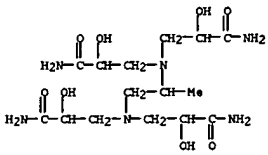


RN 25937-86-4 CAPLUS
CN Propanamide, 3,3',3'',3'''-[(1-methyl-1,2-ethanediyl)dinitrilo]tetrakis[2-hydroxy- (9CI) (CA INDEX NAME)

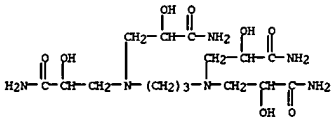
L13 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



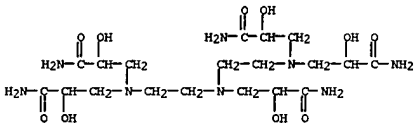
L13 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 25937-87-5 CAPLUS
CN Propanamide, 3,3',3'',3'''-(1,3-propanediyldinitrilo)tetrakis[2-hydroxy- (9CI) (CA INDEX NAME)



RN 25937-93-3 CAPLUS
CN Propanamide, 3,3',3'',3'''-[[(3-amino-2-hydroxy-3-oxopropyl)imino]bis(2,1-ethanediylnitrilo)]tetrakis[2-hydroxy- (9CI) (CA INDEX NAME)



RN 25937-94-4 CAPLUS
CN 4,7,10,13-Tetraazahexadecanediamide, 4,7,10,13-tetrakis(3-amino-2-hydroxy-3-oxopropyl)-2,15-dihydroxy- (9CI) (CA INDEX NAME)

L13 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN

AB Five R{CH2CH(OH)COR1 n [I, n = 1-3; R = n-C18H37NH, cyclohexylamino, PhCH2N, [HO2CCH(OH)CH2 2-NCH2CH2N, or N; R1 = OH , useful as complex components for masking metal ions, especially Fe, in the paper and textile industry, were prepared by treating I (R1 = NH2) with aqueous KOH several hr at 100° with NH3 evolution.

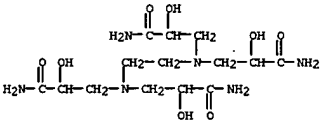
ACCESSION NUMBER: 1972:539433 CAPLUS
DOCUMENT NUMBER: 77:139433
TITLE: β-Aminolactic acids
INVENTOR(S): Becke, Friedrich; Fleig, Helmut
PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik AG
SOURCE: Ger. Offen., 10 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2103453	A	19720817	DE 1971-2103453	19710126
BE 778403	A1	19720724	BE 1972-113150	19720124
FR 2124807	A5	19720922	FR 1972-2185	19720124
GB 1368203	A	19740925	GB 1972-3417	19720125

PRIORITY APPLN. INFO.: DE 1971-2103453 A 19710126

IT **23918-41-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with potassium hydroxide)

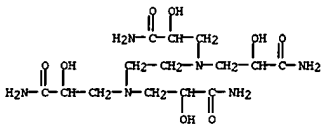
RN 23918-41-4 CAPLUS
CN Propanamide, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[2-hydroxy- (9CI) (CA INDEX NAME)



L13 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
AB The heat resistance of a 3:97 1,3-dioxolane-trioxane copolymer [24969-26-4] (containing 0.02% NaF and 0.2-0.4% phenolic antioxidant) is increased by adding 0.1-0.2% nitrilotrilactamide [23918-39-0] or ethylenediaminetetralactamide [23918-41-4].
ACCESSION NUMBER: 1972:128123 CAPLUS
DOCUMENT NUMBER: 76:128123
TITLE: Stabilizing thermoplastic polyacetals
INVENTOR(S): Sander, Bruno; Schuette, Wilhelm
PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik AG
SOURCE: Ger., 3 pp.
CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1669728	A	19700924	DE 1967-B94973	19671017
DE 1669728	B	19711230		
PRIORITY APPLN. INFO.:			DE 1967-B94973 A	19671017

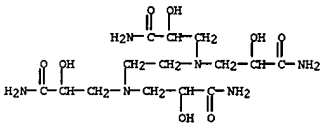
IT **23918-41-4**
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(heat stabilizers, for polyoxymethylenes)
RN 23918-41-4 CAPLUS
CN Propanamide, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[2-hydroxy-(9CI) (CA INDEX NAME)



L13 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
AB Use of 0.1-0.2% nitrilotris(lactamide) or ethylenediaminetetrakis(lactamide) and 0.2-0.4% 2,2'-methylenebis(4-methyl - 6-tert-butylphenol) (I) antioxidant in degassed melts of 97:3 trioxane-1,3-dioxolane copolymer containing NaF gave 0.54-0.9% weight loss and no discoloration after heating 2 hr
at 222° compared with use of I and nitrilotris(propionamide) or dicyandiamide, which gave 0.95-1.93% weight losses, brown or yellow-brown discolorations, and (or) deposits in the mold at 220-30°.
ACCESSION NUMBER: 1970:499607 CAPLUS
DOCUMENT NUMBER: 73:99607
TITLE: Heat stabilization of polyacetals by addition of a β-aminolactamide
PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik AG
SOURCE: Fr., 8 pp.
CODEN: FRXXAK
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1584931		19700102	FR	
DE 1669727			DE	
GB 1234057			GB	
US 3607831		19710000	US	
PRIORITY APPLN. INFO.:			DE	19671017

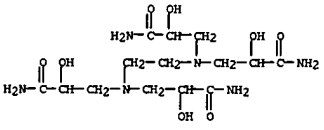
IT **23918-41-4**
RL: USES (Uses)
(stabilizers, for trioxane copolymers)
RN 23918-41-4 CAPLUS
CN Propanamide, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[2-hydroxy-(9CI) (CA INDEX NAME)



L13 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2005 ACS on STN
GI For diagram(s), see printed CA Issue.
AB β-Carbamoyl-β-hydroxyethylamines, useful for forming complexes with F e(III) and, to a less extent, with Ni, Co Fe(II), Cr(III), or Al, were prepared by treating glycidamide I (R = H, CH2OH, or CH 2OMe) with NH3, N2H4, H2NOH, H2N(CH2)2NH2, H2NCHMeCH2NH2, H2N(CH2)3NH2, H2N(CH2)6NH2, H2N(CH2CH2NH)2H, H2N(CH2CH2NH)3H, or polyethylenimine. The following HzN[CH2CH(OH)CONHR]3-n were prepared (n, % yield, R, and m.p. given): 0, 86, H, 164°; 0, 76, CH2OH, oil; 1, 82, H, 193°; 1, 77, CH2OH, oil. The following [RNHCOCH(OH)CH2]2NR1N[CH2CH(OH)CONHR]2 were prepared (R1, R, % yield, and m.p. given): CH2CH2, H, 92, 201°; CHMeCH2, H, 81, oil; (CH2)3, H, 78, oil; CH2CH2, CH2 oH, 84, oil; CH2CH2, CH2OMe, 91, oil; (CH2)6, H, 91, oil; (CH2)6, CH2OH, 86, oil. Also prepared were [H2NCOCH(OH)CH2)2NN[CH2CH(OH)CONH2]2 (94%, oil); HON-[CH2CH(OH)CONH2]2 (80%, oil); HOCH2CH2N[CH2CH(OH)CONH2]2 (89%, oil), [-N[CH2CH(OH)CONH2]CH2CH2-]n (polymer) (95%, m. 60°); [H2NCOCH(OH)CH2]2N[CH2CH2NCH2CH(OH)CONH]nH, where n is 2 (88%, m. 52°) and 3 (90%, m. 48°).
ACCESSION NUMBER: 1970:22758 CAPLUS
DOCUMENT NUMBER: 72:22758
TITLE: β-Carbamoyl-β-hydroxyethylamines as masking agents in the textile and paper industries
PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik AG
SOURCE: Fr., 6 pp.
CODEN: FRXXAK
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1542198		19681011	FR	
GB 1195427			GB	
US 3538158		19700000	US	
PRIORITY APPLN. INFO.:			DE	19661104

IT **23918-41-4D**, Lactamide, 3,3',3'',3'''-(ethylenedinitrilo)tetrakis-, iron complexes
RL: USES (Uses)
(as masking agents for paper)
RN 23918-41-4 CAPLUS
CN Propanamide, 3,3',3'',3'''-(1,2-ethanediyldinitrilo)tetrakis[2-hydroxy-(9CI) (CA INDEX NAME)



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FULL ESTIMATED COST                                    35.48     533.98

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                    -5.11      -6.57

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STRUCTURE FILE UPDATES:   24 APR 2005  HIGHEST RN 849094-71-9
DICTIONARY FILE UPDATES:  24 APR 2005  HIGHEST RN 849094-71-9

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

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*                                                                   *
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* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
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Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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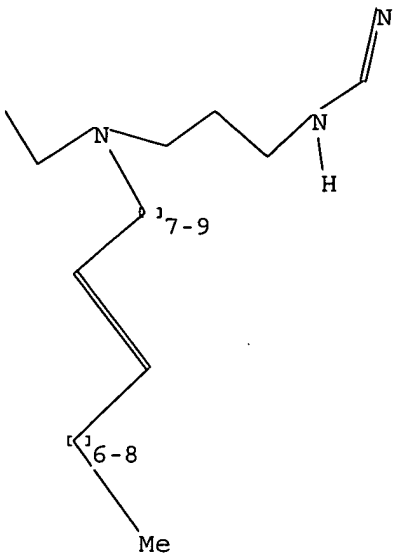

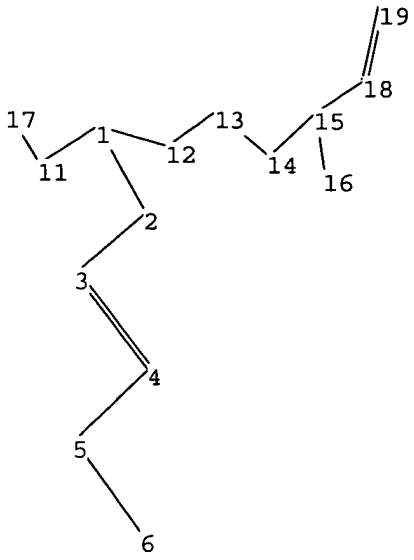

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Match level :
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L14 STRUCTURE UPLOADED

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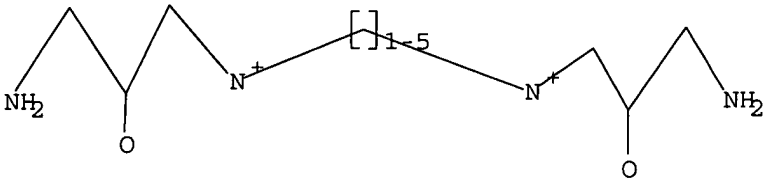

Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED - 63729 TO ITERATE

100.0% PROCESSED 63729 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

L15 2 SEA SSS FUL L14

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	162.19	696.17

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-6.57

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FILE LAST UPDATED: 24 Apr 2005 (20050424/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l15
L16 0 L15

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.45	696.62

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-6.57

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STRUCTURE FILE UPDATES: 24 APR 2005 HIGHEST RN 849094-71-9
DICTIONARY FILE UPDATES: 24 APR 2005 HIGHEST RN 849094-71-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

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*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
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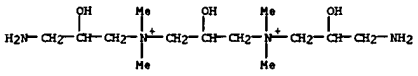
Crossover limits have been increased. See HELP CROSSOVER for details.

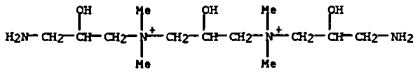
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d l15 1-2

L15 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
RN 741631-75-4 REGISTRY
ED Entered STN: 08 Sep 2004
CN 1,3-Propanediaminium, N,N'-bis(3-amino-2-hydroxypropyl)-2-hydroxy-N,N,N',N'-tetramethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H34 N4 O3
CI COM
SR CA



L15 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2005 ACS on STN
RN 93951-13-4 REGISTRY
ED Entered STN: 31 Aug 1985
CN 1,3-Propanediaminium, N,N'-bis(3-amino-2-hydroxypropyl)-2-hydroxy-N,N,N',N'-tetramethyl-, dichloride, dihydrochloride (9CI) (CA INDEX NAME)
MF C13 H34 N4 O3 . 2 Cl H . 2 Cl
SR European Union (EU)
LC STN Files: CHEMLIST
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (741631-75-4)



●2 Cl⁻

●2 HCl

```
=> FIL STNGUIDE
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                          4.54     701.16

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                          0.00      -6.57

FILE 'STNGUIDE' ENTERED AT 14:58:55 ON 25 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 22, 2005 (20050422/UP).

=> fil reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                          0.06     701.22

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                          0.00      -6.57

FILE 'REGISTRY' ENTERED AT 14:59:06 ON 25 APR 2005
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COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   24 APR 2005  HIGHEST RN 849094-71-9
DICTIONARY FILE UPDATES:  24 APR 2005  HIGHEST RN 849094-71-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

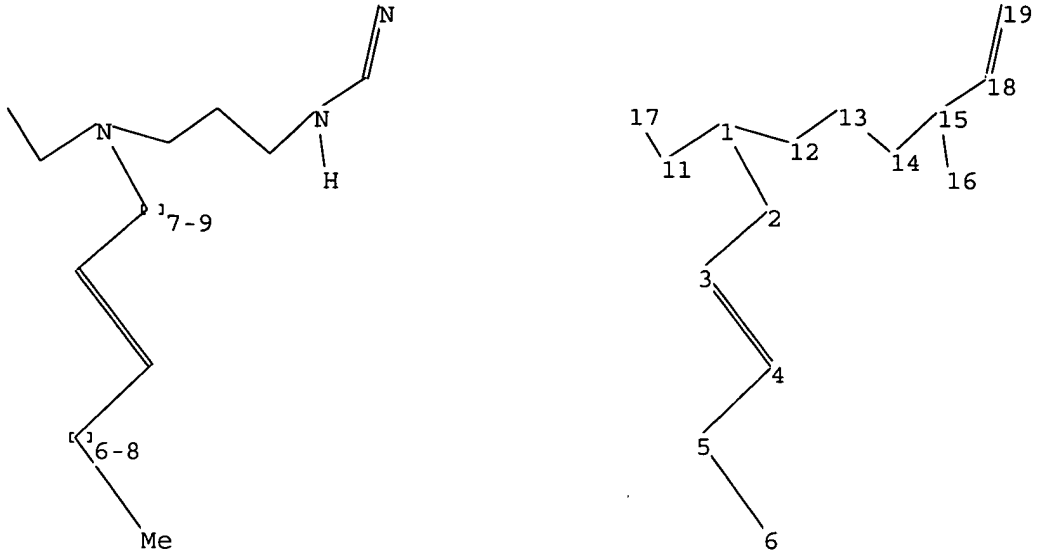
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
```

http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str

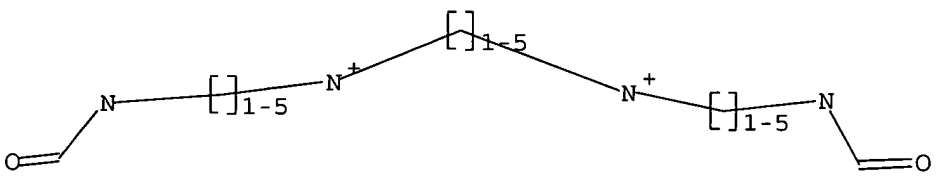


chain nodes :
1 2 3 4 5 6 11 12 13 14 15 16 17 18 19
chain bonds :
1-2 1-11 1-12 2-3 3-4 4-5 5-6 11-17 12-13 13-14 14-15 15-16 15-18
18-19
exact/norm bonds :
1-2 1-11 1-12 14-15 15-18 18-19
exact bonds :
2-3 3-4 4-5 5-6 11-17 12-13 13-14 15-16

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 11:CLASS 12:CLASS 13:CLASS
14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

L17 STRUCTURE UPLOADED

=> d query
L17 STR



Structure attributes must be viewed using STN Express query preparation.

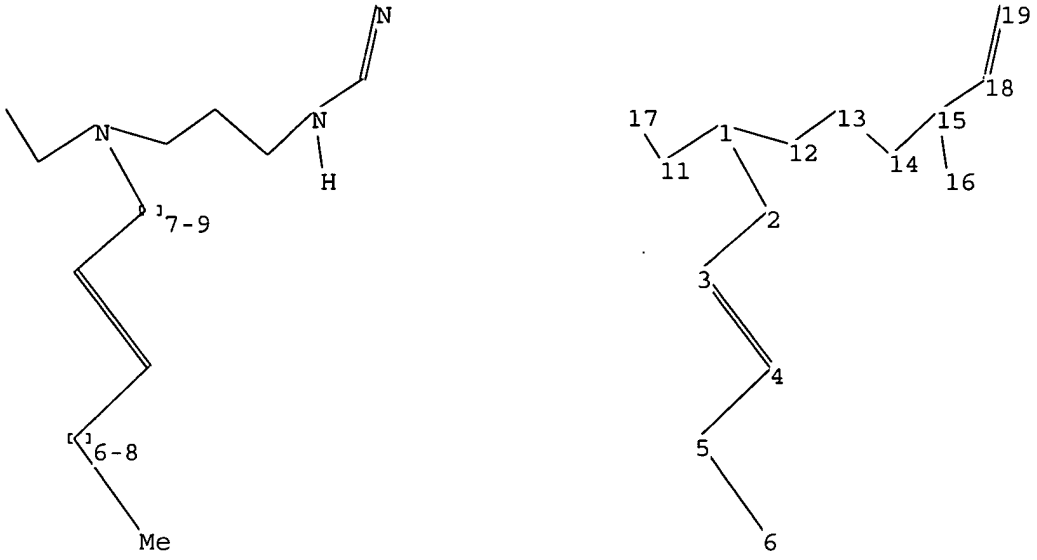
```
=> s l17
SAMPLE SEARCH INITIATED 15:01:38 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -  62612 TO ITERATE

  1.6% PROCESSED    1000 ITERATIONS                                0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:      EXCEEDS 1000000
PROJECTED ANSWERS:         EXCEEDS       0

L18           0 SEA SSS SAM L17

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str
```

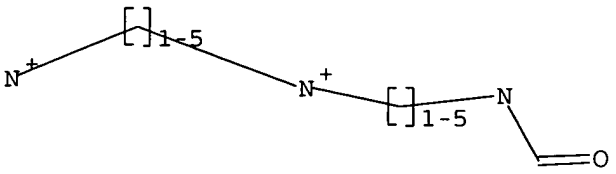



```
chain nodes :
1  2  3  4  5  6  11  12  13  14  15  16  17  18  19
chain bonds :
1-2  1-11  1-12  2-3  3-4  4-5  5-6  11-17  12-13  13-14  14-15  15-16  15-18
18-19
exact/norm bonds :
1-2  1-11  1-12  14-15  15-18  18-19
exact bonds :
2-3  3-4  4-5  5-6  11-17  12-13  13-14  15-16


Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  11:CLASS  12:CLASS  13:CLASS
14:CLASS  15:CLASS  16:CLASS  17:CLASS  18:CLASS  19:CLASS
```

L19 STRUCTURE UPLOADED

=> d query
L19 STR



Structure attributes must be viewed using STN Express query preparation.

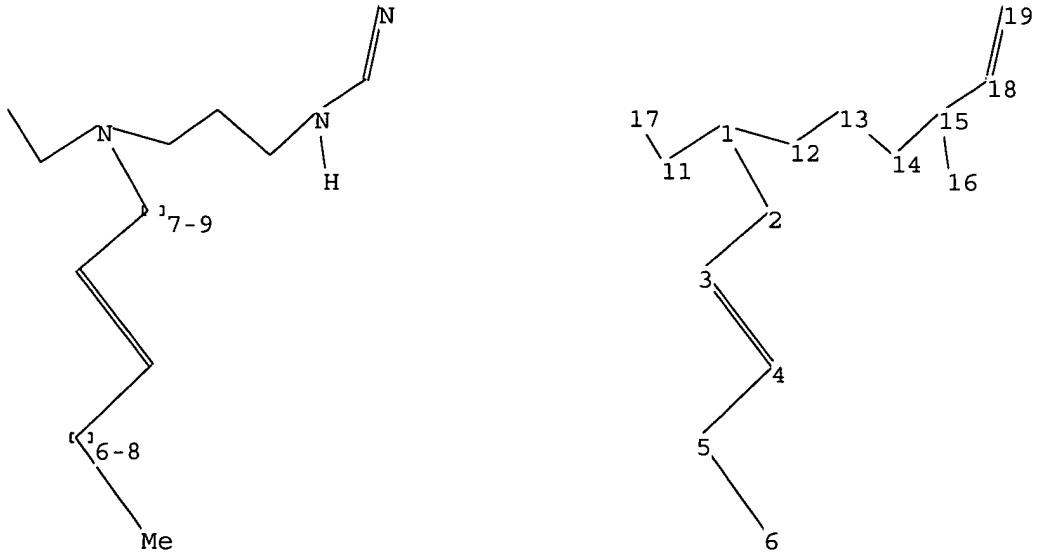
=> s l19
SAMPLE SEARCH INITIATED 15:02:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 86223 TO ITERATE

1.2% PROCESSED 1000 ITERATIONS 1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 1167

L20 1 SEA SSS SAM L19

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str



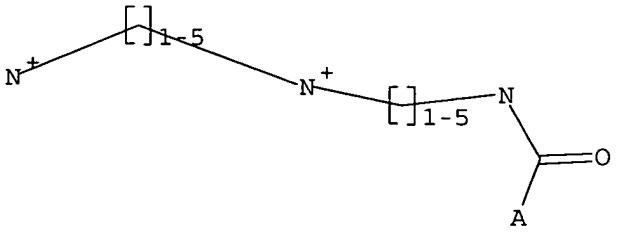
chain nodes :
1 2 3 4 5 6 11 12 13 14 15 16 17 18 19
chain bonds :
1-2 1-11 1-12 2-3 3-4 4-5 5-6 11-17 12-13 13-14 14-15 15-16 15-18 18-19

exact/norm bonds :
1-2 1-11 1-12 14-15 15-18 18-19
exact bonds :
2-3 3-4 4-5 5-6 11-17 12-13 13-14 15-16

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 11:CLASS 12:CLASS 13:CLASS
14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

L21 STRUCTURE UPLOADED

=> d query
L21 STR



Structure attributes must be viewed using STN Express query preparation.

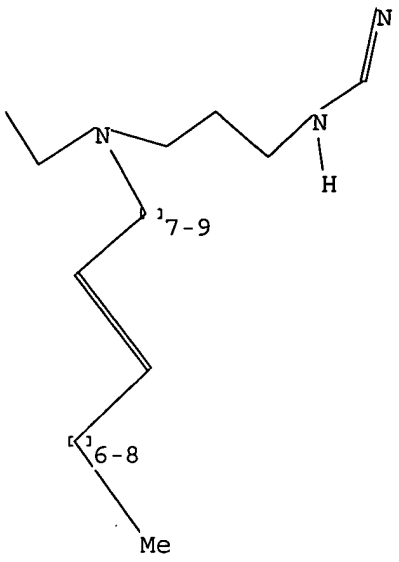
=> s l21
SAMPLE SEARCH INITIATED 15:03:17 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 86218 TO ITERATE

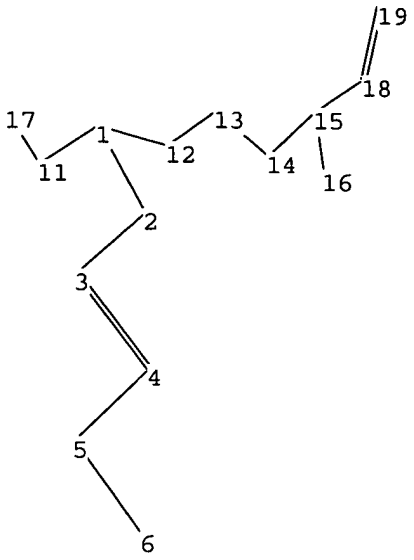
1.2% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: EXCEEDS 1000000
PROJECTED ANSWERS: EXCEEDS 0

L22 0 SEA SSS SAM L21

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str



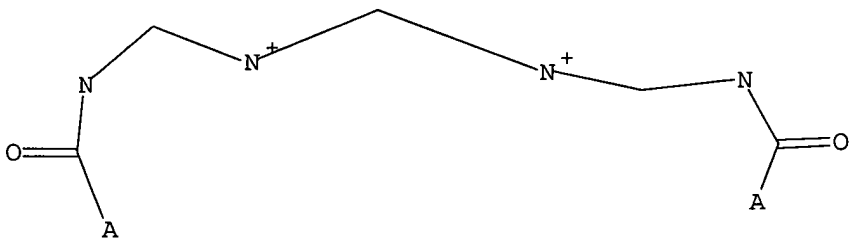


chain nodes :
1 2 3 4 5 6 11 12 13 14 15 16 17 18 19
chain bonds :
1-2 1-11 1-12 2-3 3-4 4-5 5-6 11-17 12-13 13-14 14-15 15-16 15-18 18-19
exact/norm bonds :
1-2 1-11 1-12 14-15 15-18 18-19
exact bonds :
2-3 3-4 4-5 5-6 11-17 12-13 13-14 15-16

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

L23 STRUCTURE UPLOADED

=> d query
L23 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l23
SAMPLE SEARCH INITIATED 15:04:26 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     68 TO ITERATE

100.0% PROCESSED      68 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          866 TO     1854
PROJECTED ANSWERS:               0 TO        0

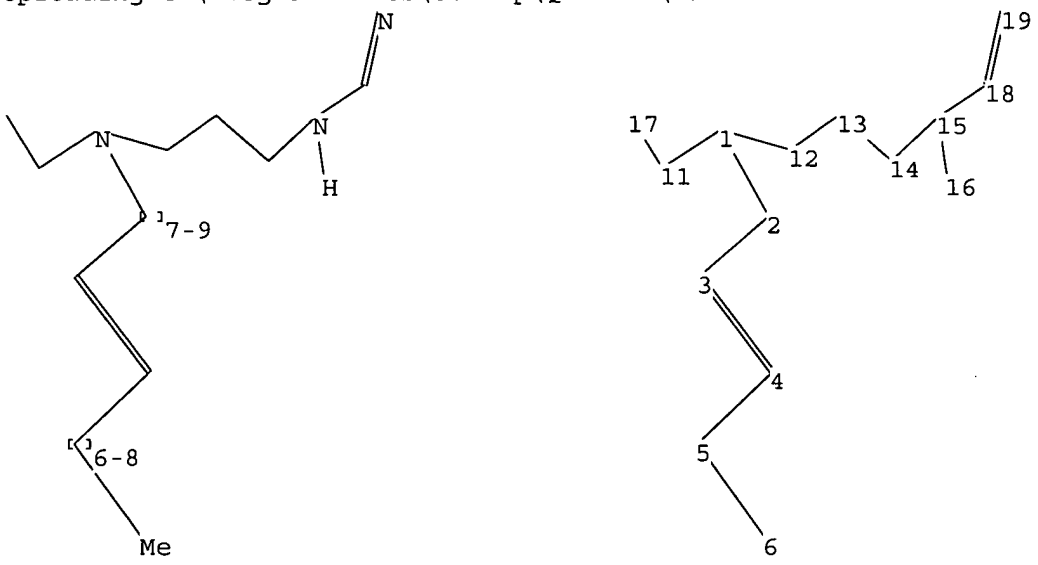
L24           0 SEA SSS SAM L23

=> s l23 full
FULL SEARCH INITIATED 15:04:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1654 TO ITERATE

100.0% PROCESSED    1654 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

L25           0 SEA SSS FUL L23

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str
```

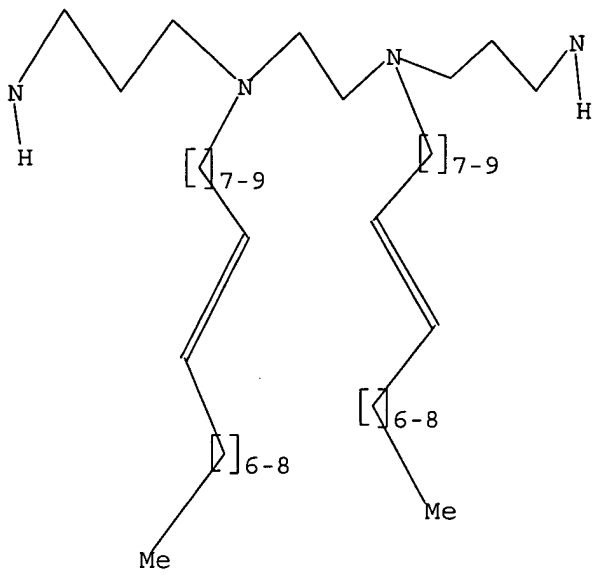



```
chain nodes :
1  2  3  4  5  6  11  12  13  14  15  16  17  18  19
chain bonds :
1-2  1-11  1-12  2-3  3-4  4-5  5-6  11-17  12-13  13-14  14-15  15-16  15-18
18-19
exact/norm bonds :
1-2  1-11  1-12  14-15  15-18  18-19
exact bonds :
2-3  3-4  4-5  5-6  11-17  12-13  13-14  15-16
```

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 11:CLASS 12:CLASS 13:CLASS
14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

L26 STRUCTURE UPLOADED

=> d query
L26 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l26
SAMPLE SEARCH INITIATED 15:08:28 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 17 TO ITERATE

100.0% PROCESSED 17 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 93 TO 587
PROJECTED ANSWERS: 1 TO 80

L27 1 SEA SSS SAM L26

=> s l26 full
FULL SEARCH INITIATED 15:08:34 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 257 TO ITERATE

100.0% PROCESSED 257 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

L28 4 SEA SSS FUL L26

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	328.68	1029.90

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-6.57

FILE 'CAPLUS' ENTERED AT 15:08:37 ON 25 APR 2005
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FILE COVERS 1907 - 25 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 24 Apr 2005 (20050424/ED)

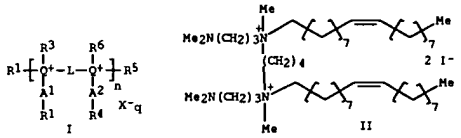
New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l28
L29 2 L28

=> d l29 1-2 abs ibib hitstr

L29 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
GI

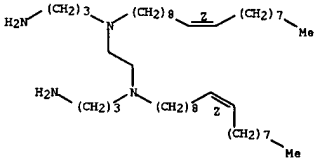


AB Synthesis and activity of transfection reagents (I) [Q = N, O, S; L = (un)substituted alkyl, ether, polyether, amide, polyamide, ester, sulfide, urea, thiourea, guanidyl, carbamoyl, carbonate, phosphate, sulfate, sulfoxide, imine, carbonyl, secondary amine; R1-R6 independently = (un)substituted alkyl, alkenyl, aryl, ether; A1, A2 independently = CH2O, CH2S, CH2NH, CO, C=NH, CS, alkyl; X = physiol. acceptable anion; n = 1-1000; q = number of pos. charge divided by valence of anion], cationic lipids capable of facilitating transport of biol. active agents or substances into cells, are disclosed. Thus, I [R1,R4 = oleyl; R2,R5 = Me2N(CH2)3; R3,R6 = Me; A1,A2 = CH2; L = (CH2)4; X = I] (II) is prepared by reaction of bis-1,4-oleyl-1,4-butandiamine with acrylonitrile followed by reduction of nitrile to amine and quaternization of amine with Me iodide. II shows an activity of 37.8 ng/βgal/cm2 in DNA delivery. Formulations containing I are given.

ACCESSION NUMBER: 2000:335366 CAPLUS
DOCUMENT NUMBER: 132:334312
TITLE: synthesis and activity of transfection reagents for transport of biol. active agents or substances into cells
INVENTOR(S): Chu, Yongliang; Masoud, Malek; Gebeyehu, Gulilat
PATENT ASSIGNEE(S): Life Technologies, Inc., USA
SOURCE: PCT Int. Appl., 130 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027795	A1	20000518	WO 1999-US26825	19991112
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2350882	AA	20000518	CA 1999-2350882	19991112

L29 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

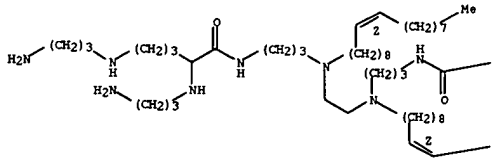
L29 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

EP 1129064	A1	20010905	EP 1999-971794		19991112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
JP 2002529439	T2	20020910	JP 2000-580975		19991112
NZ 512244	A	20031219	NZ 1999-512244		19991112
AU 772847	B2	20040506	AU 2000-14776		19991112
PRIORITY APPLN. INFO.:			US 1998-108117P	P	19981112
			WO 1999-US26825	W	19991112

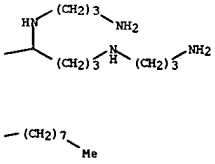
OTHER SOURCE(S): MARPAT 132:334312
IT 268539-54-4P 268539-55-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and activity of transfection reagents for transport of biol. active agents or substances into cells)
RN 268539-54-4 CAPLUS
CN Pentanamide, N,N'-[1,2-ethanediylbis[[(9Z)-9-octadecenylimino]-3,1-propanediyl]]bis[2,5-bis[(3-aminopropyl)amino]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A



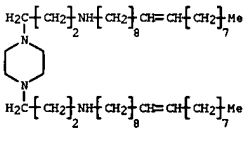
PAGE 1-B



RN 268539-55-5 CAPLUS
CN 1,3-Propanediamine, N,N''-1,2-ethanediylbis[N-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

L29 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Transfection of a cell is accomplished using with a polynucleotide mixed with one or more amphipathic compds. and a DNA-binding protein, especially a histone such as histones H1, H2A, or H2B. The DNA-binding protein may be fused to a nuclear localization signal peptide. Exemplary and preferred amphipathic compds. are cationic amphipathic compds. I was synthesized in 70% yield by reacting 1,4-bis(3-aminopropyl)piperazine with oleoyl chloride and reducing the intermediate with LiAlH4 in THF. Histone H1 was found to increase the transfection efficiency of I 16.1-fold. I/H1 reagent has a greater transfection efficiency and less cellular toxicity then LipofectAmine, which is useful in gene therapy.

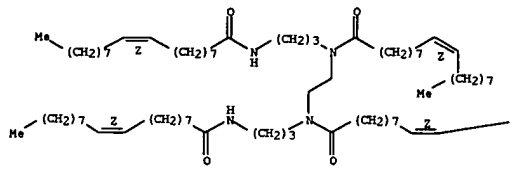
ACCESSION NUMBER: 1998:263206 CAPLUS
DOCUMENT NUMBER: 128:266964
TITLE: Process of transfecting a cell with a polynucleotide mixed with an amphipathic compound and a DNA-binding protein
INVENTOR(S): Wolff, Jon A.; Fritz, Jeffery; Budker, Vladimir; Hagstrom, James
PATENT ASSIGNEE(S): Mirus Corporation, USA
SOURCE: U.S., 16 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5744335	A	19980428	US 1995-530598	19950919
US 6180784	B1	20010130	US 1998-20566	19980117
PRIORITY APPLN. INFO.:			US 1995-530598	A3 19950919

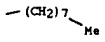
OTHER SOURCE(S): MARPAT 128:266964
IT 205596-14-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(amphipathic compds. for transfecting cells and their syntheses)
RN 205596-14-1 CAPLUS
CN 9-Octadecenamide, N,N'-1,2-ethanediylbis[N-[3-[(1-oxo-9-octadecenyl)amino]propyl]-, (all-Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A



PAGE 1-B

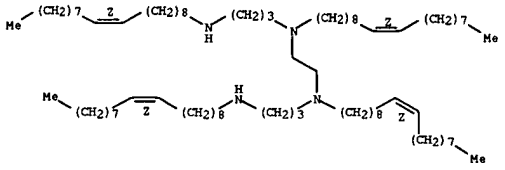


IT 205596-06-1P
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(cell transfection with polynucleotide mixed with amphipathic compound and DNA-binding protein)

RN 205596-06-1 CAPLUS

CN 1,3-Propanediamine, N,N''-1,2-ethanediylbis[N,N'-di-9-octadecenyl-, (all-Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS

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                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      11.23    1041.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                      -1.46      -8.03

FILE 'REGISTRY' ENTERED AT 15:10:19 ON 25 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   24 APR 2005  HIGHEST RN 849094-71-9
DICTIONARY FILE UPDATES:  24 APR 2005  HIGHEST RN 849094-71-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str
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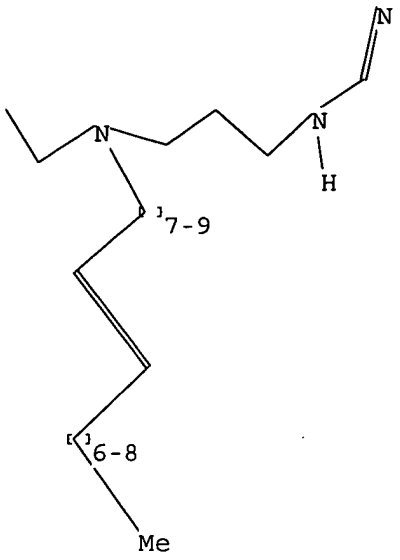
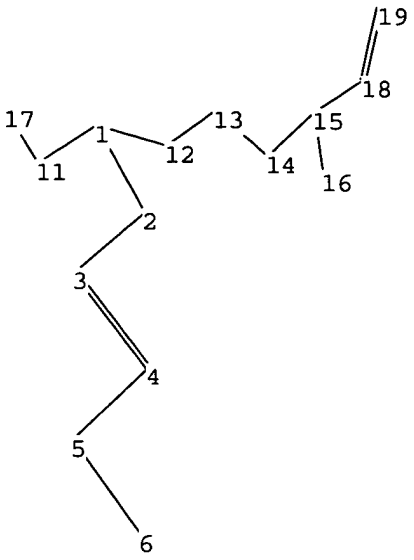


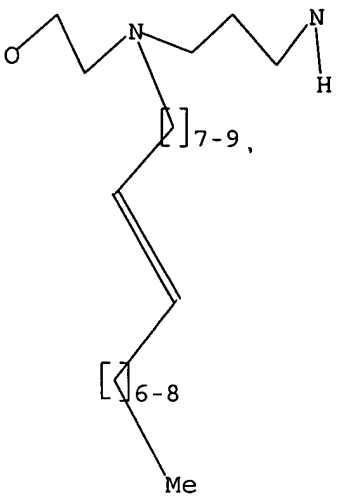


chain nodes :
1 2 3 4 5 6 11 12 13 14 15 16 17 18 19
chain bonds :
1-2 1-11 1-12 2-3 3-4 4-5 5-6 11-17 12-13 13-14 14-15 15-16 15-18 18-19
exact/norm bonds :
1-2 1-11 1-12 14-15 15-18 18-19
exact bonds :
2-3 3-4 4-5 5-6 11-17 12-13 13-14 15-16

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

L30 STRUCTURE UPLOADED

=> d query
L30 STR



Structure attributes must be viewed using STN Express query preparation.

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=> s l30
SAMPLE SEARCH INITIATED 15:22:13 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     62 TO ITERATE

100.0% PROCESSED      62 ITERATIONS                                1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          768 TO     1712
PROJECTED ANSWERS:               1 TO       80

L31           1 SEA SSS SAM L30

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FULL SEARCH INITIATED 15:22:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1299 TO ITERATE

100.0% PROCESSED    1299 ITERATIONS                              11 ANSWERS
SEARCH TIME: 00.00.01

L32          11 SEA SSS FUL L30

=> fil caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   169.50    1210.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -8.03

FILE 'CAPLUS' ENTERED AT 15:22:20 ON 25 APR 2005
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```

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FILE COVERS 1907 - 25 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 24 Apr 2005 (20050424/ED)

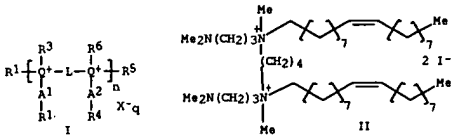
New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l32
L33 4 L32

=> d l33 1-4 abs ibib hitstr

L33 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Synthesis and activity of transfection reagents (I) [Q = N, O, S; L = (un)substituted alkyl, ether, polyether, amide, polyamide, ester, sulfide, urea, thiourea, guanidyl, carbamoyl, carbonate, phosphate, sulfate, sulfoxide, imine, carbonyl, secondary amine; R1-R6 independently = (un)substituted alkyl, alkenyl, aryl, ether; A1, A2 independently = CH2O, CH2S, CH2NH, CO, C=NH, CS, alkyl; X = physiol. acceptable anion; n = 1-1000; q = number of pos. charge divided by valence of anion], cationic lipids capable of facilitating transport of biol. active agents or substances into cells, are disclosed. Thus, I [R1,R4 = oleyl; R2,R5 = Me2N(CH2)3; R3,R6 = Me; A1,A2 = CH2; L = (CH2)4; X = I] (II) is prepared by reaction of bis-1,4-oleyl-1,4-butandiamine with acrylonitrile followed by reduction of nitrile to amine and quaternization of amine with Me iodide. II shows an activity of 37.8 ng/βgal/cm2 in DNA delivery. Formulations containing I are given.

ACCESSION NUMBER: 2000:335366 CAPLUS
DOCUMENT NUMBER: 132:334312
TITLE: synthesis and activity of transfection reagents for transport of biol. active agents or substances into cells
INVENTOR(S): Chu, Yongliang; Masoud, Malek; Gebeyehu, Gulilat
PATENT ASSIGNEE(S): Life Technologies, Inc., USA
SOURCE: PCT Int. Appl., 130 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027795	A1	20000518	WO 1999-US26825	19991112
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2350882	AA	20000518	CA 1999-2350882	19991112

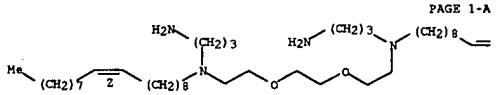
L33 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

EP 1129064	A1	20010905	EP 1999-971794	19991112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002529439	T2	20020910	JP 2000-580975	19991112
NZ 512244	A	20031219	NZ 1999-512244	19991112
AU 772847	B2	20040506	AU 2000-14776	19991112
PRIORITY APPLN. INFO.:			US 1998-108117P	P 19981112
			WO 1999-US26825	W 19991112

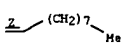
OTHER SOURCE(S): MARPAT 132:334312
IT 268539-56-6P 268539-57-7P 268539-58-8P
268539-60-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and activity of transfection reagents for transport of biol. active agents or substances into cells)
RN 268539-56-6 CAPLUS
CN 7,10-Dioxa-4,13-diazahexadecane-1,16-diamine, 4,13-di-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A



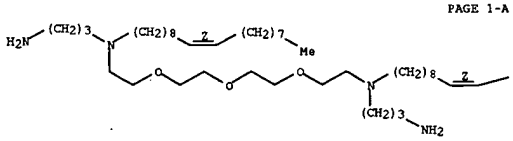
PAGE 1-B



RN 268539-57-7 CAPLUS
CN 7,10,13-Trioxa-4,16-diazanonadecane-1,19-diamine, 4,16-di-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

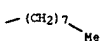
Double bond geometry as shown.

PAGE 1-A



L33 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

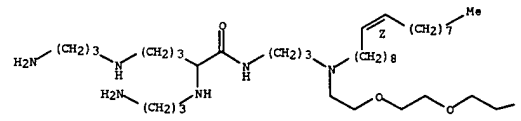
PAGE 1-B



RN 268539-58-8 CAPLUS
CN Pentanamide, N,N'-[4,13-di-(9Z)-9-octadecenyl-7,10-dioxa-4,13-diazahexadecane-1,16-diyl]bis[2,5-bis[(3-aminopropyl)amino]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

PAGE 1-A



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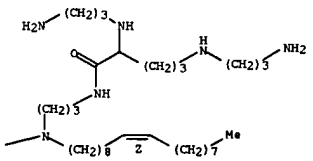
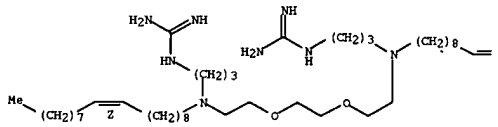


RN 268539-60-2 CAPLUS
CN 9,12-Dioxa-2,6,15,19-tetraazaeicosanediimidamide, 6,15-di-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

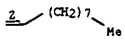
Double bond geometry as shown.

L33 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L33 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AB ABCmDN[(CH2)nOWY][(CH2)oOXZ] [A = H, NR1R2, NR1(CH2)pNR3R4, (C:NH)NH2, pyridinyl; B, D = bond, C1-6 alkylene, iminoalkylene; C = piperidinediyl, piperazinediyl; W, X = bond, CO; Y, Z = (unsatd.) hydrocarbyl; R1-R5 = H, alkyl; m = 0-2; n, o = 2-4; p = 2-6; with provisos], were prepared Thus, 2-[(2-hydroxyethyl)-[1-(3-diethylaminopropyl)piperidin-4-ylmethyl]amino]ethanol reacted with tetradecanoyl chloride to give 31% tetradecanoic acid 2-[(2-tetradecanoyloxyethyl)-[1-(3-diethylaminopropyl)piperidin-4-ylmethyl]amino]ethyl ester. The latter was 3.2 times as effective as DOTAP for transfection of DNA into HeLa cells.
ACCESSION NUMBER: 1998:180856 CAPLUS
DOCUMENT NUMBER: 128:230250
TITLE: Preparation of (heterocyclic) amino alcohol derivatives as agents for introducing bioactive molecules into cells.
INVENTOR(S): Friebe, Walter-Gunar; Dimoudis, Nikolaos; Michaelis, Uwe; Knipp, Bernhard
PATENT ASSIGNEE(S): Boehringer Mannheim G.m.b.H., Germany; Friebe, Walter-Gunar; Dimoudis, Nikolaos; Michaelis, Uwe; Knipp, Bernhard
SOURCE: PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

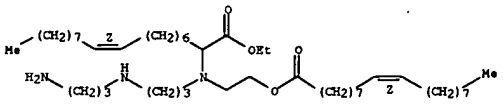
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9811082	A1	19980319	WO 1997-EP4944	19970910
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
DE 19637043	A1	19980319	DE 1996-19637043	19960912
CA 2265765	AA	19980319	CA 1997-2265765	19970910
AU 9743841	A1	19980402	AU 1997-43841	19970910
AU 741636	B2	20011206		
EP 927174	A1	19990707	EP 1997-942012	19970910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
CN 1237161	A	19991201	CN 1997-199651	19970910
CN 1087293	B	20020710		
BR 9712818	A	19991221	BR 1997-12818	19970910
JP 2001504806	T2	20010410	JP 1998-513249	19970910
ZA 9708170	A	19990311	ZA 1997-8170	19970911
KR 2000036063	A	20000626	KR 1999-702068	19990311
US 2003236266	A1	20031225	US 2002-59207	20020131

PRIORITY APPLN. INFO.:
DE 1996-19637043 A 19960912
WO 1997-EP4944 W 19970910
US 1999-147818 B1 19990512

OTHER SOURCE(S): MARPAT 128:230250
IT **204639-32-7P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of (heterocyclic) amino alc. derivs. as agents for introducing

L33 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
bioactive mols. into cells)
RN 204639-32-7 CAPLUS
CN 9-Octadecenoic acid, 2-[[3-[(3-aminopropyl)amino]propyl][2-[(1-oxo-9-octadecenyl)oxy]ethyl]amino]-, ethyl ester, monohydrochloride, (Z,Z)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



● HCl

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

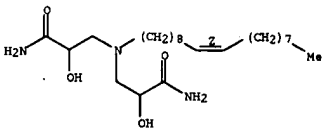
L33 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AB The title compds. are useful as emulsifying agents and as fat-liquoring or softening agents for leather, paper, and textiles. Inter-mediates RNHCH2CH(OH)CONH2 (I) and RN[CH2CH(OH)-CONH2]2 (II) were prepared by reacting 1 or 2 moles glycidamide with 1 mole of amine RNH2 in 25 aqueous, aqueous
methanolic, or methanolic solution at 50-60° during 1-2 hr. Quaternization of I and II was carried out by treating with an appropriate halide in H2O, aqueous methanolic or methanolic solution at 30-50° for 2-3 hr then at 50° for 2-3 hr. Aqueous solns. containing 0.3 g/l. [C18H39-NMe[CH2CH(OH)CONH2]2]+MeSO4- were used to treat cot-ton and polycaprolactam fabrics giving material with a soft pleasant hand and hydrophilic in character.
ACCESSION NUMBER: 1971:87345 CAPLUS
DOCUMENT NUMBER: 74:87345
TITLE: (β-Carbamyl-β-hydroxyethyl)alkylammonium salts
PATENT ASSIGNEE(S): Badische Anilin- & Soda-Fabrik AG
SOURCE: Brit., 12 pp.
CODEN: BRXXAA
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1211040		19701104	GB	
FR 1592740			FR	
US 3632623		19720000	US	

PRIORITY APPLN. INFO.:
DE 19671121

IT **32671-73-1P 32671-74-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 32671-73-1 CAPLUS
CN Lactamide, 3,3'-(9-octadecenylimino)bis-, (Z)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.

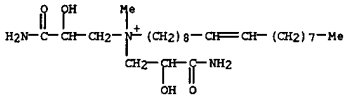


RN 32671-74-2 CAPLUS
CN Ammonium, bis(2-carbamoyl-2-hydroxyethyl)methyl-9-octadecenyl-, methyl sulfate, (Z)- (8CI) (CA INDEX NAME)

CM 1

CRN 48077-37-8
CMF C25 H50 N3 O4

L33 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



CM 2

CRN 21228-90-0
CMF C H3 O4 S

L33 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

AB Bituminous emulsions for road building are described which break apart quickly. These neutral or slightly acid cationic aqueous bituminous emulsions are prepared with N-alkylpropylenediamine salts as emulsifiers. They contain 20-80% bitumen, 0.1-2% emulsifier C8-22H7-45N+H-[(CH2CH2O)1-4H](CH2)3NH3X2-, while the rest is water. The pH is 6.5-7.0. The diamine is prepared by letting a β-cyano-ethylalkylamine react with 1-4 moles ethylene oxide to yield a polyoxyethylenated β-cyanoethylalkylamine. The latter is catalytically hydrogenated to give the diamine. Thus, 35% water and 0.1% N-oleyl-N-(hydroxyethyl)-1,3-propylenediamine yielded an aqueous solution of an emulsifier which subsequently was mixed with 65% asphalt to result in an emulsion which broke quickly.

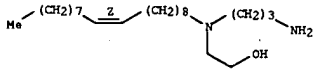
ACCESSION NUMBER: 1969:423534 CAPLUS
DOCUMENT NUMBER: 71:23534
TITLE: Aqueous bituminous emulsions
INVENTOR(S): Reck, Richard A.; Stalioraitis, Joseph S.; Dybalski, Jack N.
PATENT ASSIGNEE(S): Armour and Co.
SOURCE: Ger., 4 pp.
CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1292572		19690410		
PRIORITY APPLN. INFO.:			US	19640511

IT 26351-33-7
RL: USES (Uses)
(pavement containing bitumens and, cationic)

RN 26351-33-7 CAPLUS
CN Ethanol, 2-[(3-aminopropyl)-9-octadecenylamino]- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



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=>  fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    21.56    1232.19

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -2.92     -10.95

FILE 'REGISTRY' ENTERED AT 15:24:43 ON 25 APR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   24 APR 2005  HIGHEST RN 849094-71-9
DICTIONARY FILE UPDATES:  24 APR 2005  HIGHEST RN 849094-71-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\09438365.str
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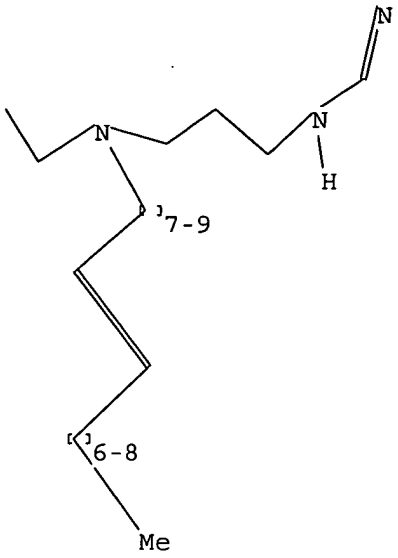
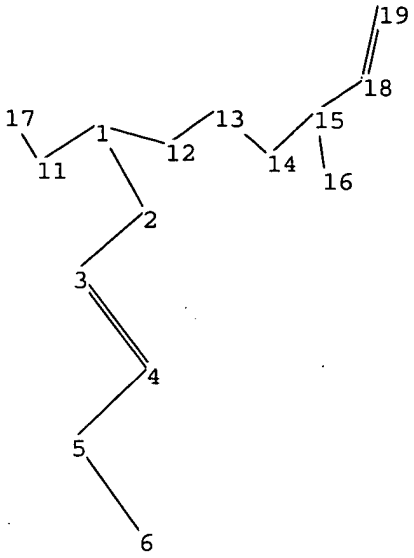


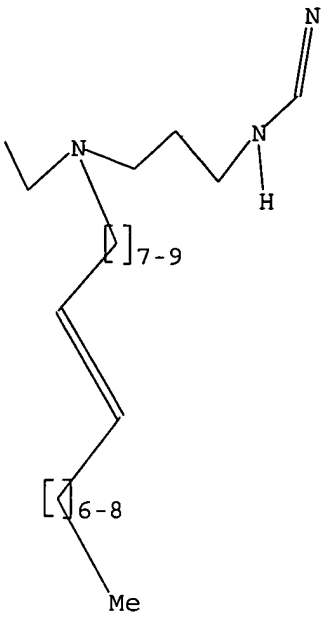


chain nodes :
1 2 3 4 5 6 11 12 13 14 15 16 17 18 19
chain bonds :
1-2 1-11 1-12 2-3 3-4 4-5 5-6 11-17 12-13 13-14 14-15 15-16 15-18 18-19
exact/norm bonds :
1-2 1-11 1-12 14-15 15-18 18-19
exact bonds :
2-3 3-4 4-5 5-6 11-17 12-13 13-14 15-16

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

L34 STRUCTURE UPLOADED

=> d query
L34 STR



Structure attributes must be viewed using STN Express query preparation.

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=> s l34
SAMPLE SEARCH INITIATED 15:25:29 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     135 TO ITERATE

100.0% PROCESSED     135 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          2003 TO     3397
PROJECTED ANSWERS:                0 TO        0

L35             0 SEA SSS SAM L34

=> s l34 full
FULL SEARCH INITIATED 15:25:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    2564 TO ITERATE

100.0% PROCESSED    2564 ITERATIONS                                 19 ANSWERS
SEARCH TIME: 00.00.01

L36            19 SEA SSS FUL L34

=> fil caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   161.33    1393.52

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
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CA SUBSCRIBER PRICE 0.00 -10.95

FILE 'CAPLUS' ENTERED AT 15:25:36 ON 25 APR 2005
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 25 Apr 2005 VOL 142 ISS 18
FILE LAST UPDATED: 24 Apr 2005 (20050424/ED)

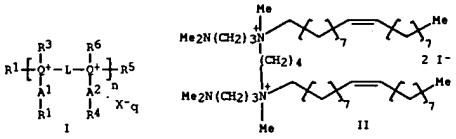
New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l36
L37 3 L36

=> d l37 1-3 abs ibib hitstr

L37 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
GI



AB Synthesis and activity of transfection reagents (I) [Q = N, O, S; L = (un)substituted alkyl, ether, polyether, amide, polyamide, ester, sulfide, urea, thiourea, guanidyl, carbamoyl, carbonate, phosphate, sulfate, sulfoxide, imine, carbonyl, secondary amine; R1-R6 independently = (un)substituted alkyl, alkenyl, aryl, ether; A1, A2 independently = CH2O, CH2S, CH2NH, CO, C=NH, CS, alkyl; X = physiol. acceptable anion; n = 1-1000; q = number of pos. charge divided by valence of anion], cationic lipids capable of facilitating transport of biol. active agents or substances into cells, are disclosed. Thus, I [R1,R4 = oleyl; R2,R5 = Me2N(CH2)3; R3,R6 = Me; A1,A2 = CH2; L = (CH2)4; X = I] (II) is prepared by reaction of bis-1,4-oleyl-1,4-butandiamine with acrylonitrile followed by reduction of nitrile to amine and quaternization of amine with Me iodide.
II
shows an activity of 37.8 ng/βgal/cm2 in DNA delivery. Formulations containing I are given.

ACCESSION NUMBER: 2000:335366 CAPLUS
DOCUMENT NUMBER: 132:334312
TITLE: synthesis and activity of transfection reagents for transport of biol. active agents or substances into cells
INVENTOR(S): Chu, Yongliang; Masoud, Malek; Gebeyehu, Gulilat
PATENT ASSIGNEE(S): Life Technologies, Inc., USA
SOURCE: PCT Int. Appl., 130 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000027795	A1	20000518	WO 1999-US26825	19991112
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2350882	AA	20000518	CA 1999-2350882	19991112

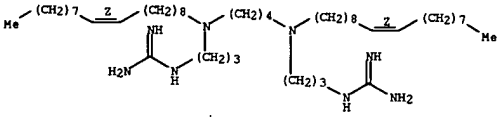
L37 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

EP 1129064	A1	20010905	EP 1999-971794	19991112
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002529439	T2	20020910	JP 2000-580975	19991112
NZ 512244	A	20031219	NZ 1999-512244	19991112
AU 772847	B2	20040506	AU 2000-14776	19991112

PRIORITY APPLN. INFO.: US 1998-108117P P 19981112
WO 1999-US26825 W 19991112

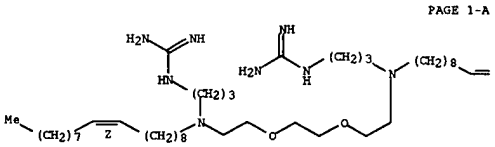
OTHER SOURCE(S): MARPAT 132:334312
IT 268539-59-9P 268539-60-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and activity of transfection reagents for transport of biol. active agents or substances into cells)
RN 268539-59-9 CAPLUS
CN 2,6,11,15-Tetraazahexadecanediimidamide, 6,11-di-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



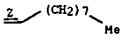
RN 268539-60-2 CAPLUS
CN 9,12-Dioxa-2,6,15,19-tetraazaeicosanediimidamide, 6,15-di-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



PAGE 1-A

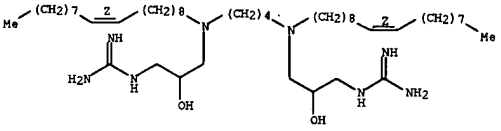
PAGE 1-B



IT 268539-49-7P

L37 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis and activity of transfection reagents for transport of biol. active agents or substances into cells)
RN 268539-49-7 CAPLUS
CN 2,6,11,15-Tetraazahexadecanediimidamide, 4,13-dihydroxy-6,11-di-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AB Cationic lipids, RR1NCO(CH2)mNHCOCH(NHR2)(CH2)nNHR3 [R, R1 = alkyl; R2, R3 = H, acyl, alkyl, carboxamidine, aryl; m = 1 - 3; n = 2 - 5], were prepared as permeability enhancer mols. to increase membrane permeability and facilitate cellular uptake of neg. charged compds. Thus, JA 59312, i.e. (Z)-H2NC(:NH)NH(CH2)2CH(NH2)CONHCH2CON[(CH2)8CH:CH(CH2)7Me](CH2)15Me, was prepared in a multistep synthetic sequence starting from 1-bromohexadecane, oleylamine, N-(benzyloxycarbonyl)-glycine N-hydroxysuccinimide ester, 2,4-bis((tert-butoxycarbonyl)amino)butyric acid, and 1H-Pyrazole-1-carboxamidine hydrochloride. The prepared compds. were tested for cellular transport and cytotoxicity.

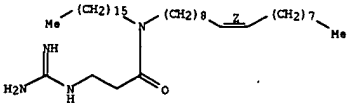
ACCESSION NUMBER: 1999:96203 CAPLUS
DOCUMENT NUMBER: 130:168544
TITLE: Preparation of novel compositions for the delivery of negatively charged molecules
INVENTOR(S): Beigelman, Leonid; Matulic-Adamic, Jasenka; Karpeisky, Alex; Haeberli, Peter; Sweedler, David; Reynolds, Mark; Chaudhary, Nilabh; Min, John
PATENT ASSIGNEE(S): Ribozyme Pharmaceuticals, Incorporated, USA
SOURCE: PCT Int. Appl., 90 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9905094 A1		19990204	WO 1998-US15129	19980722
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 1997-53517 19970723
US 1998-72967 19980129

OTHER SOURCE(S): MARPAT 130:168544
IT 220458-60-6P, AK 524-73
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of novel compns. for the delivery of neg. charged mols.)
RN 220458-60-6 CAPLUS
CN Propanamide, 3-[(aminoiminomethyl)amino]-N-hexadecyl-N-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



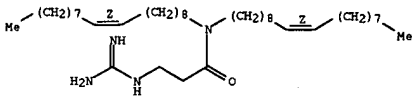
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

AB The title compds. R1R2NC(O)AX [R1, R2 = C10 - C26 hydrocarbyl; A = hydrocarbylene (further details on said hydrocarbylene are given); X = NHC(:NR3)NHR4, etc.; R3, R4 = hydrocarbyl, etc.; a proviso is given] are prepared In an in vivo gene transfer test, the transfection efficiency obtained with 2-guanidino-N,N-dioctadeca-9-enylpropionamide was greater than that achieved with Dotma.
ACCESSION NUMBER: 1998:379115 CAPLUS
DOCUMENT NUMBER: 129:81526
TITLE: Preparation of cationic lipids as materials for liposomes for gene transfer
INVENTOR(S): Belloni, Paula Nanette; Hirshfeld, Donald Roy; Rink, John Otto; Nester, John Joseph; Peltz, Gary Allen
PATENT ASSIGNEE(S): F. Hoffmann-la Roche A.-G., Switz.
SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10152461	A2	19980609	JP 1997-285925	19971020
CA 2217550	AA	19980422	CA 1997-2217550	19971007
EP 846680	A1	19980610	EP 1997-117934	19971016
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6034137	A	20000307	US 1997-954428	19971020
CN 1180697	A	19980506	CN 1997-121514	19971021
CN 1068585	B	20010718		
BR 9705117	A	19980915	BR 1997-5117	19971022
PRIORITY APPLN. INFO.:			US 1996-29581P	P 19961022
			US 1997-49922P	P 19970618

OTHER SOURCE(S): MARPAT 129:81526
IT **209396-70-3P 209396-72-5P 209396-85-0P**
209396-86-1P 209396-88-3P 209396-92-9P
209396-94-1P 209396-98-5P 209397-00-2P
209397-06-8P 209397-07-9P 209397-09-1P
209397-10-4P 209397-11-5P 209397-12-6P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of cationic lipids as materials for liposomes)
RN 209396-70-3 CAPLUS
CN Propanamide, 3-[(aminoiminomethyl)amino]-N,N-di-(9Z)-9-octadecenyl-, monohydrochloride (9CI) (CA INDEX NAME)

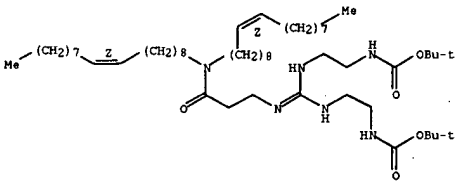
Double bond geometry as shown.



● HCl

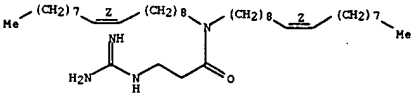
RN 209396-72-5 CAPLUS
CN 2,5,7,10-Tetraazaundec-5-enedioic acid, 6-[[3-[di-(9Z)-9-octadecenylamino]-3-oxopropyl]amino]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



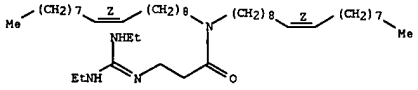
RN 209396-85-0 CAPLUS
CN Propanamide, 3-[(aminoiminomethyl)amino]-N,N-di-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



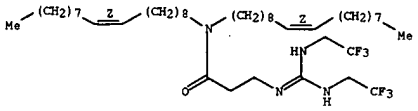
RN 209396-86-1 CAPLUS
CN Propanamide, 3-[[bis(ethylamino)methylene]amino]-N,N-di-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



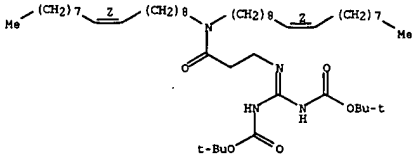
RN 209396-88-3 CAPLUS
CN Propanamide, N,N-di-(9Z)-9-octadecenyl-3-[[[(2,2,2-trifluoroethyl)amino][(2,2,2-trifluoroethyl)imino]methyl]amino]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



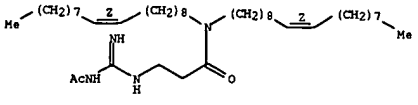
RN 209396-92-9 CAPLUS
CN Carbamic acid, [[3-[di-(9Z)-9-octadecenylamino]-3-oxopropyl]carbonimidoyl]bis-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



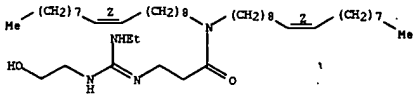
RN 209396-94-1 CAPLUS
CN Propanamide, 3-[[(acetylamino)iminomethyl]amino]-N,N-di-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



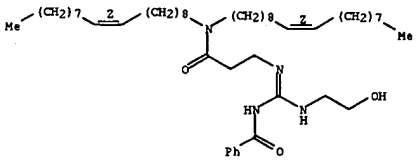
RN 209396-98-5 CAPLUS
CN Propanamide, 3-[[(ethylamino)[(2-hydroxyethyl)amino]methylene]amino]-N,N-di-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



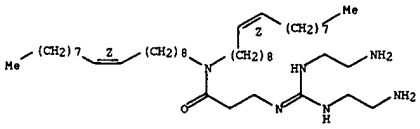
RN 209397-00-2 CAPLUS
CN Benzamide, N-[[[3-[di-(9Z)-9-octadecenylamino]-3-oxopropyl]amino][(2-hydroxyethyl)amino]methylene]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



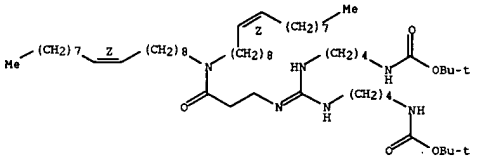
RN 209397-06-8 CAPLUS
CN Propanamide, 3-[[[(2-aminoethyl)amino][(2-aminoethyl)imino]methyl]amino]-N,N-di-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



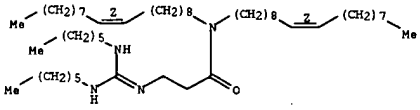
RN 209397-07-9 CAPLUS
CN Propanamide, 3-[[bis(butylamino)methylene]amino]-N,N-di-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

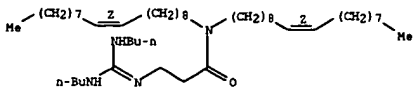
Double bond geometry as shown.



RN 209397-12-6 CAPLUS
CN Propanamide, 3-[[bis(hexylamino)methylene]amino]-N,N-di-(9Z)-9-octadecenyl- (9CI) (CA INDEX NAME)

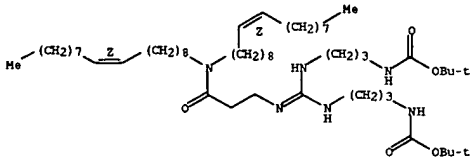
Double bond geometry as shown.





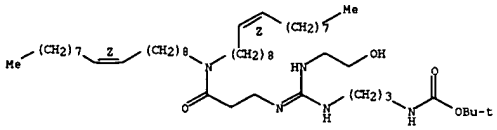
RN 209397-09-1 CAPLUS
CN 2,6,8,12-Tetraazatridec-6-enedioic acid, 7-[[3-[di-(9Z)-9-octadecenylamino]-3-oxopropyl]amino]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 209397-10-4 CAPLUS
CN 2,6,8,12-Tetraazatriaconta-6,21-dienoic acid, 7-[(2-hydroxyethyl)amino]-12-(9Z)-9-octadecenyl-11-oxo-, 1,1-dimethylethyl ester, (21E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 209397-11-5 CAPLUS
CN 2,7,9,14-Tetraazapentadec-7-enedioic acid, 8-[[3-[di-(9Z)-9-octadecenylamino]-3-oxopropyl]amino]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

Double bond geometry as shown.

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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    18.42    1411.94

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -2.19     -13.14

STN INTERNATIONAL LOGOFF AT 15:30:41 ON 25 APR 2005
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